

Headline	Pekat`s RE project at Barat Tioman Beach Resort garners recognition at Asean Energy		
MediaTitle	Borneo Post (KK)		
Date	18 Sep 2021	Language	English
Circulation	18,290	Readership	54,870
Section	Business	Page No	A3
ArticleSize	258 cm <sup>2</sup>	Journalist	N/A
PR Value	RM 4,317		



## Pekat's RE project at Barat Tioman Beach Resort garners recognition at Asean Energy awards

**SELANGOR:** Solar Photovoltaic (PV) and Earthing and Lightning Protection (ELP) specialist Pekat Group Bhd (Pekat) has strengthened its position in the country's renewable power sector riding on its renewable energy (RE) project in Pulau Tioman.

The company's subsidiary Pekat Solar Sdn Bhd (PSSB) 144kWp solar PV system and 274kWh Energy Storage System (ESS) for the Barat Tioman Beach Resort in Pulau Tioman has been selected as the second runner up for the 'On Grid - Local Grid' category at the National Energy Awards 2021.

The project also received second runner up under the same category, 'On Grid - Local Grid' at the Asean Energy Awards 2021. The ceremony was held virtually recently in conjunction with 39th Asean Ministers on Energy Meeting (AMEM) and Asean Energy Business Forum 2021.

Pekat executive director Wee Chek Aik said, the RE project has successfully improved the social-economic and environment aspects for the resort and the community.

"PSSB undertook the project to supply renewable energy alternative technology such as solar and hybrid microgrid systems to supply the energy shortage to the resort.

"The solar hybrid system has helped the resort to reduce dependency on the utility

grid, reduce operating cost of using diesel generators as well as reduce the emission of greenhouse gases into the atmosphere.

"This system has proven to save up to RM250,000 annually as the TNB bill and diesel cost are reduced. The initial upfront investment is estimated to give back positive returns on the 5th year of the system being operated."

Before installing the PV ESS, Barat Tioman Beach Resort rely solely on supply from the national utility grid and its own diesel generator to fulfil its average daily load of about 80kW to 100kW.

Utility company supplies electricity to the island with a 8.9MW diesel power plant at Tekek Village and a 500kW mini hydro plant at Juara village through 11kV distribution lines.

However, due to the increase in population and tourists in Pulau Tioman, the utility grid is unable to cater to the power supply demand from their resort.

Additionally, the resort also faced issues such as worn out electrical system, insufficient power, instable grid and high operating cost for diesel generator.

Due to the unstable grid and lack of alternative energy sources on Pulau Tioman, hence the microgrid hybrid solar system is the ideal solution to provide uninterrupted electricity



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This holds enormous potential for Pekat as the market growth of the solar system and lithium energy storage is expected to grow in the coming years.

Furthermore, the energy cost of such systems will reduce greatly in a few years time. Today, electricity is generated from various sources of energy and distributed through the grids to consumers.

For decades, most countries rely on large power grids distribution to fulfill electricity needs.

However, with the rapid

development of technology, micro grids has gained more popularity all over the world in recent years, especially to fulfil demands in remote areas/islands.

The Malaysian government plays an important role in promoting renewable energy by introducing green energy friendly policies.

Malaysia generates electricity from gas, coal and by 2025 the country aspires to produce 20 per cent of its power output from renewable resources such as hydropower, solar, wind, municipal waste and others.